

CONTACTOR, AC-3 5,5 KW/400 V, AC 230 V,
50/60 HZ, 3-POLE, SIZE S0,
SCREW CONNECTION

General details:

Product brand name		SIRIUS
Product designation		power contactor
Size of the contactor		S0
Protection class IP / frontal/front side		IP20
Degree of pollution		3
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature / during the operating phase	°C	-25 ... 60
Real loss power / per conductor / typical	W	0.5
Item designation		
<ul style="list-style-type: none"> • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q K
Mechanical operating cycles as operating time		
<ul style="list-style-type: none"> • of the contactor / typical • of the contactor with added auxiliary switch block / typical • of the contactor with added electronics-compatible auxiliary switch block / typical 		10,000,000 10,000,000 5,000,000

Main circuit:

Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value	A	40
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	35
Operating current		
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value • with 1 current path <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A A A	12 35 4.5

<ul style="list-style-type: none"> • at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	20
	A	2.5
<ul style="list-style-type: none"> • with 2 current paths in series <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	35
	A	35
	A	35
	A	15
<ul style="list-style-type: none"> • with 3 current paths in series <ul style="list-style-type: none"> • at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	35
	A	35
	A	35
	A	35
	A	35
Service power		
<ul style="list-style-type: none"> • at AC-1 / at 400 V / rated value 	kW	23
<ul style="list-style-type: none"> • at AC-2 / at 400 V / rated value 	kW	5.5
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value 	kW	5.5
	kW	7.5
	kW	7.5

Control circuit:

Design of activation of the operating mechanism		conventional
Type of voltage / of the controlled supply voltage		AC
control supply voltage frequency		
<ul style="list-style-type: none"> • 1 / rated value 	Hz	50
<ul style="list-style-type: none"> • 2 / rated value 	Hz	60
Control supply voltage / 1		
<ul style="list-style-type: none"> • at 50 Hz / for AC <ul style="list-style-type: none"> • rated value • at 60 Hz / for AC <ul style="list-style-type: none"> • rated value 	V	230
	V	230

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts		
<ul style="list-style-type: none"> • instantaneous switching 		0

• lagging switching		0
Number of NO contacts / for auxiliary contact		
• instantaneous switching		0
• leading switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

Short-circuit:

Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
 - at type of coordination 1 / required
 - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 63 A

fuse gL/gG: 25 A

Installation/mounting/dimensions:

Type of fixing/fixation

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

Series installation

Yes

Width

mm 45

Height

mm 85

Depth

mm 91

distance, to be maintained, to earthed part / sideways

mm 6

Connection type:

design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Global Industry Mall (Online ordering system)

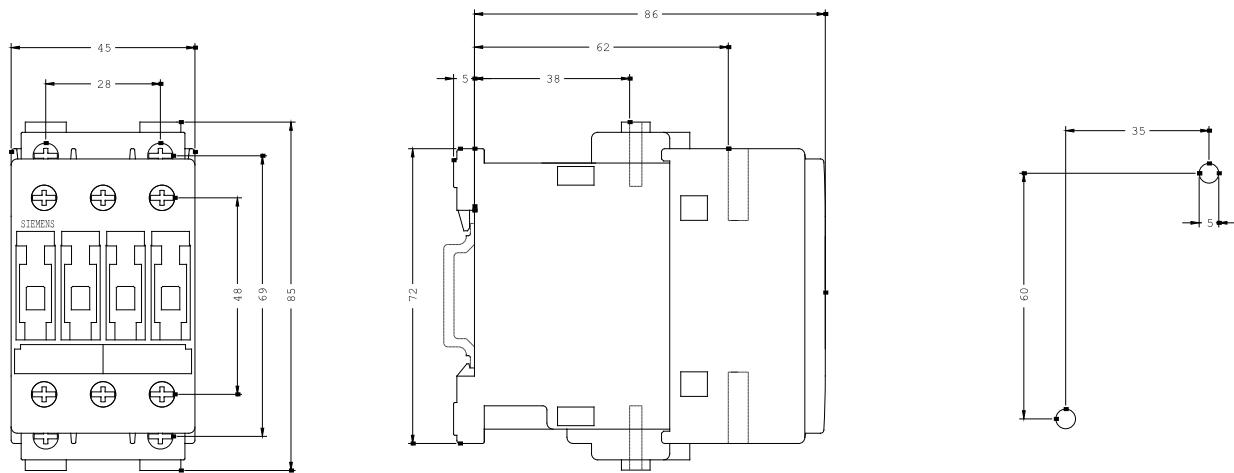
<http://www.siemens.com/industrial-controls/mall>

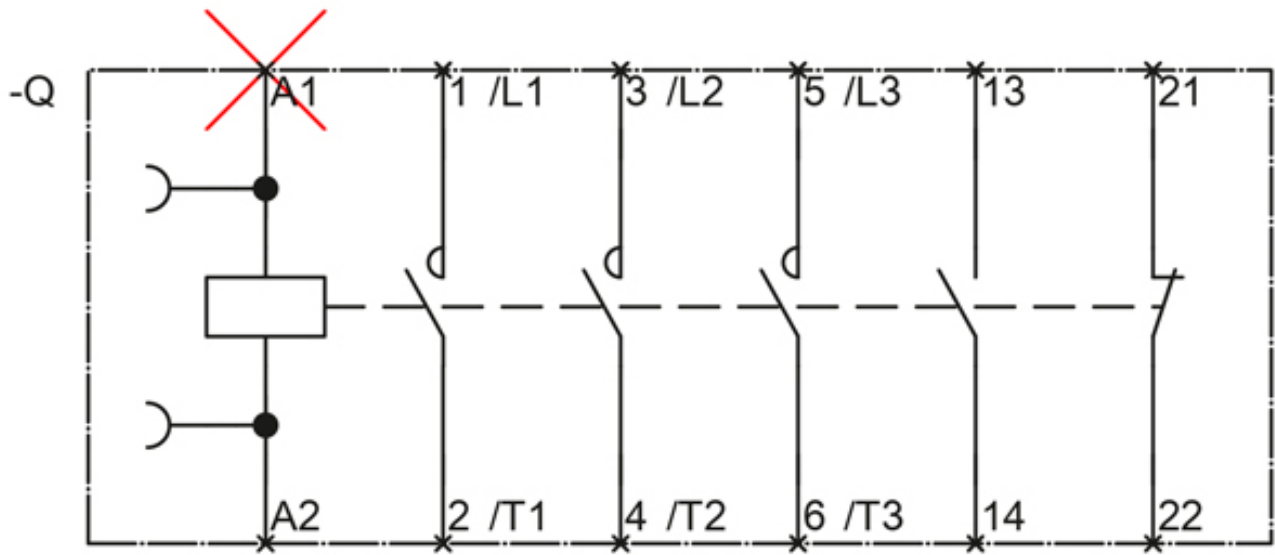
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1024-1AL20/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1024-1AL20





last change:

Jun 14, 2010